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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/155,605

09/29/1998

TOM DE VRINGER

98.554

8895

20306

7590

03/25/2005

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EXAMINER

KISHORE, GOLLAMUDI S

ART UNIT

PAPER NUMBER

1615

DATE MAILED: 03/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/155,605

Applicant(s)

DE VRINGER ET AL.

Examiner

Gollamudi S. Kishore, Ph.D

Art Unit

1615

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12-20-04.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 and 19-37 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17 and 19-37 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

The RCE filed on 12-20-04 is acknowledged.

Claims included in the prosecution are 1-17 and 19-37.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-17 and 19-37 are rejected under 35 U.S.C. 102(b) as being anticipated by EP 0 521 562 of record.

EP 0521 562 teaches instant reverse vesicles containing sucrose fatty acid esters and an apolar vehicle, which is a silicone oil or isoparaffin. The compositions further contain a lipophilic stabilizing factor such as cholesterol and an active agent. The process of preparation involves making a dispersion of reversed vesicles from the non-ionic surfactants and the active agent in an apolar (non-polar) vehicle such as volatile silicone oil and removing the non-polar vehicle (note the abstract, col. 5, line 49 through col. 12, line 56, Examples and claims). Although EP does not explicitly teach that the preparation is in the form of a powder, since it teaches on col. 12, lines 55-56, the removal of the non-polar vehicle (volatile silicon oil), the teachings of a powder form of the preparation are implicit in the reference.

Claim Rejections - 35 U.S.C. § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-17 and 19-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP 0521562 by itself or in further combination with EP 0 678 295, EP 0159237, GB 2002319, JP 05194253 by themselves or in combination (all are of record).

According to instant claims, the preparation is a reversed vesicle, meaning that the hydrophobic group of the surfactant molecule is oriented toward the hydrophobic continuous medium, which is an oil (silicone oil).

As pointed out above, EP 0521 562 teaches instant reverse vesicles containing sucrose fatty acid esters and an apolar vehicle, which is a silicone oil or isoparaffin. The compositions further contain a lipophilic stabilizing factor such as cholesterol, a hydrophilic stabilizing factor, and an active agent. The process of preparation involves making a dispersion of reversed vesicles from the non-ionic surfactants and the active

agent in an apolar (non-polar) vehicle such as volatile silicone oil and removing the non-polar vehicle (note the abstract, col. 5, line 49 through col. 12, line 56, Examples and claims). What this reference lacks are the explicit teachings that the preparation is in the powder form.

EP 0678 295 teaches that vesicular preparations (hydrophilic group of the lipid is oriented towards the continuous external phase (water) can be lyophilized to form powders (note Example 1 and claims 1 and 7).

EP 0159237 teaches that emulsions (micelles) can be freeze-dried to form powders, which are easier to handle than emulsions (note the abstract).

GB teaches that dehydration of lipid vesicles (liposomes) to prepare a stable powder, which can be stored for longer periods of time (note the abstract).

JP 05194253 teaches the preparation of a powder of reverse micelles containing a surfactant (note the abstract).


Assuming that the preparations taught by EP 0521 562 are not powder preparations, it is deemed obvious to one of ordinary skill in the art that if the removal of the external medium in which the vesicles are dispersed results in a powdery preparation as evidenced by the references of the references of EP 295, EP 237 and JP 253. One of ordinary skill in the art would be motivated to remove the external medium such as volatile silicone oil and prepare the powders since GB teaches that powders are stable and can be stored for longer periods of time.

Applicant's arguments have been fully considered, but are deemed to be moot in view of the new rationale based on the teachings of EP 562 that the non-polar vehicle is removed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gollamudi S. Kishore, Ph.D whose telephone number is (571) 272-0598. The examiner can normally be reached on 6:30 AM- 4 PM, alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K. Page can be reached on (571) 272-0602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Gollamudi S Kishore, Ph.D
Primary Examiner
Art Unit 1615

GSK